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METHOD OF AND SYSTEM FOR MODULATING AND DEMODULATING A COMMUNICATION SIGNAL USING DIFFERENTIAL QUADRATURE PHASE SHIFT KEYING (DQPSK)

ABSTRACT OF THE DISCLOSURE

A system for and method of modulating and demodulating a communication signal using differential quadrature phase shift keying (DQPSK) can include, upon receiving an inbound communication signal, demodulating the inbound communication signal by obtaining Pi/4 differential quadrature phase shift keying (DQPSK) symbols, translating the Pi/4 DQPSK symbols into quadrature phase shift keying (QPSK) symbols, and mapping the QPSK symbols to a pair of bits. Upon initiating an outbound communication signal, the system and method can include modulating the outbound communication signal by obtaining communication bits indicative of the outbound communication signal, translating the communication bits to three communication bits, and mapping the translated bits to DQPSK symbols.

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